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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/678,459	10/03/2000	Masumitsu Ino	09792909-4645	4568

7590

09/12/2002

David R Metzger
Sonnenschein Nath & Rosenthal
Post Office Box 061080
Wacker Drive Station Sears Tower
Chicago, IL 60606-1080

EXAMINER

EVANS, GEOFFREY S

ART UNIT

PAPER NUMBER

1725

DATE MAILED: 09/12/2002

3

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/678,459

Applicant(s)

INO ET AL.

Examiner

Geoffrey S Evans

Art Unit

1725

-- Th MAILING DATE of this communication appears on th cover she t with the correspond nce address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 11-16 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 11-16 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Art Unit: 1725

DETAILED ACTION

1. Parent Application No. 08/878,588 was unfortunately unavailable during preparation of this office action.
2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. Please note that the instant application has only apparatus claims and not method claims.
3. The abstract of the disclosure is objected to because it should be no longer than 150 words long. Correction is required. See MPEP § 608.01(b).
4. Claim 11 is objected to because of the following informalities: In claim 11 on line 9 the word "laser" is misspelled as "leaser". Appropriate correction is required.
5. Claim 16 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. There is no antecedent basis for "said detector" on line 3 of claim 16 since it does not depend (directly or indirectly) upon claim 13.
6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 11 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Chae in U.S. Patent No. 5,432,122. Chae discloses apparatus for offsetting each laser scan by a distance (which appears to be "pitch" according to Applicant's terminology) so

Art Unit: 1725

that defects caused by laser annealing are not on a gate region of the thin film transistor (TFT).

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

10. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chae in view of Kawashima in U.S. Patent No. 5,528,372. Kawashima teaches using an alignment mark for a semiconductor scanning process. It would have been obvious to adapt Chae in view of Kawashima to provide this to ensure the laser beam scans over the correct areas of the workpiece.

Art Unit: 1725

11. Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chae in U.S. Patent No. 5,432,122 in view of Noguchi et al. in U.S. Patent No. 5,529,951. Noguchi et al. teaches a stage, a motor for moving the stage and a controller for driving the motor under the control of a controller using a detector (element 112) (see figure 6 of Noguchi et al. in U.S. Patent No. 5,529,951). It would have been obvious to adapt Chae in view of Noguchi et al. as a known way of moving the laser beam relative to the workpiece.


12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ko in Japan Patent No. 2-42,717 applies a laser beam only once over a region of the thin film where semiconductor elements are to be formed. Ishihara et al. in U.S. Patent No. 5,643,801, Maegawa et al. in U.S. Patent No. 5,591,668, Ino et al. in U.S. Patent No. 5,888,839, Imahashi et al. in U.S. Patent No. 5,413,958, Kusumoto et al. in U.S. Patent No. 5,953,597 and Lee in U.S. Patent No. 5,382,548 each have laser annealing apparatus of interest.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey S Evans whose telephone number is (703)-308-1653. The examiner can normally be reached on Mon-Fri 6:30AM to 4:00 PM, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (703)-308-3318. The fax phone numbers for the organization where this application or proceeding is assigned are (703)-872-9310 for regular communications and (703)-872-9311 for After Final communications.

Art Unit: 1725

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-308-0661.

A handwritten signature in black ink, reading "Geoffrey S Evans". The signature is written in a cursive, flowing style with a large initial "G".

Geoffrey S Evans
Primary Examiner
Art Unit 1725

GSE
September 9, 2002